# Data from the Commercial Fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1982

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Canadian Data Report of
Fisheries and Anuatic Sciences 437

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## ABSTRACT

Roberge, M.M., G. Low, and C.J. Read. 1984. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1982. Can. Data Rep. Fish. Aquat. Sci. 437: iv + 24 p.

Data from the fish plant sampling and fishery observations on the Great Slave Lake commercial fishery, summer and winter, are presented. Production and catch per unit of effort by vessel type at weekly intervals by fishing area are shown. A total of 3 570 lake whitefish were sampled for age, length and weight. From the fishery observations, 39 vessels lifting 956 nets (158 067 m) were sampled for catch, effort, and cullage.


Key words: catch composition; catch/effort; commercial fishing; cullage; exploitation; fishery management; monitoring.


## RESUME

Roberge, M.M., G. Low, and C.J. Read. 1984. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1982. Can. Data Rep. Fish. Aquat. Sci. 437: iv + 24 p.

Ce rapport présente des données sur l'échantillonnage effectué à l'usine de transformation du poisson et sur l'étude des pêcheries commerciales d'été et d'hiver, au Grand lac des Esclaves. Il fournit des statistiques hebdomadaires sur la production et les prises par unité d'effort selon le genre de navire et la zone de pêche. Les données sur l'âge, la longueur et le poids proviennent d'un échantillonnage de 3 570 grands corégones, tandis que celles sur les prises, l'effort et le tri proviennent d'une étude portant sur 39 vaisseaux de pêche commerciale et 956 filets (158 067 m).


Mots-clés: composition des prises; rapport prise/effort; pêche commerciale; tri; exploitation; aménagement des pêches; contrôle.

## INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stock(s) of the commercial species (Rawson 1951, 1953a; Keleher 1972; and Kennedy 1956) until the 1970's.

In 1971, the Department of Fisheries began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendations of the Great Slave Working Party (1969) outlined in Roberge et al. (1982).

In order to meet these objectives, a three component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1981 have been described by Bond (1974a, b; 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978; 1981), Moshenko and Low (1978a, b; 1979; 1980) and Roberge et al. (1982).

During 1982, two components, fish plant sampling and fishery observations, were carried out. This report summaries, in tabular form the data gathered from each of these two components.

## STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, having a surface area of 27 195 $km^2$ and a drainage area of 985 300 $km^2$. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm. Physical and biological characteristics of the lake have been previously described in detail by Rawson (1950, 1951, 1953a, b).

## DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950's annual production of whitefish and trout averaged 2.9 million kilograms as the large accumulated stock was exploited. Since the 1950's commercial production of both species has decreased annually and whitefish and trout have reacted differently to exploitation (Keleher 1972). The west end of the lake is now being managed for whitefish production with minimal regard to lake trout which have been unable to withstand commercial gillnetting. Other than the mesh change in 1977 from 139 mm to 133 mm, gillnets of 139 mm stretched mesh have been the sole means of exploitation with no restriction on number of nets since 1961. During its history almost the entire lake has been open to commercial fishing although certain areas have been closed to protect subsistence and sport fishing (Fig. 1 and Northwest Territories Fishery Regulations 1982). The east arm of Great Slave Lake (Area VI) was closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

A minimum of 25 fish species occur in the lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are lake whitefish, Coregonus clupeaformis (Mitchill); lake trout, Salvelinus namaycush (Walbaum); inconnu, Stenodus leucichthys (Pallas); northern pike, Esox lucius (Linnaeus); and walleye (pickerel), Stizostedion vitreum vitreum (Mitchill). Cisco, Coregonus spp., burbot, Lota lota (Linnaeus) and longnose sucker, Catostomus catostomus (Forster) may constitute up to 40% or more of the total species catch; however, they are culled on the lake due to lack of market demand.

For the management of the commercial fishery the lake is divided into six administrative areas and a portion of the total annual quota of 1 681 900 kilograms round weight of whitefish and trout is allotted to each area (Table 2). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. More detailed histories of the commercial fishery on Great Slave Lake are discussed by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

In 1982, commercial fishing in Area III, which until the present time was sparce, increased significantly. Because of the historically low harvest of whitefish and trout (<25% of total allowable catch) and the length/age composition of the whitefish inhabiting the area, an increase in the area quota was made. The annual quota for Area III was increased from 45 500 kg to 79 400 kg for the 1982 season only.

## MATERIALS AND METHODS

### FISH PLANT SAMPLING

Monthly summaries of the landings by administrative area of the five commercial species were compiled from the Freshwater Fish Marketing Corporation (FFMC) sales slips by Fisheries and Oceans staff in Hay River.

The following table lists the factors used to convert various species and forms to round weight:

| Species | Form | Conversion Factor |
|---|---|---|
| Whitefish | dressed | x 1.17 |
| Pickerel | dressed | x 1.22 |
| | headless dressed | x 1.39 |
| Trout | dressed | x 1.21 |
| | headless dressed | x 1.53 |
| Pike | dressed | x 1.22 |
| | headless dressed | x 1.53 |
| Inconnu | dressed | x 1.16 |
| | headless dressed | x 1.35 |

Production values presented in this report (Tables 1, 2) include whitefish culls at the plant but do not include an estimate of whitefish discarded on the lake due to deterioration following extended periods in the nets (usually the result of storms). Fishermen cull these fish as the nets are lifted but no record is made to the numbers or estimated weight. Fish which do not meet the market size and quality requirements are further culled by graders at the fish plant and the weight is recorded on the sales slip. Cullage on the lake was not subtracted from the quota this season. Cullage will be subtracted from the lake quota when management programs provide a good estimate of lake cullage.

Commercial landings of whitefish were sampled at each of the four fish plants: Simpson Island, Wool Bay, Moraine Bay and Hay River (Fig. 1). Sampling time schedule was based on a year-round schedule as follows:

Winter - January 1 to March 30
Spring - June 10 to July 10
Summer - July 21 to August 21
Fall - September 1 to September 30

Boxes of fish were selected at random from the catches of the various fishermen as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual fisherman were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different fishermen. An additional 15 fish were sampled to account for scale samples which were unsuitable for aging. The fish were measured for fork length (± 1 mm) and dressed weight (± 50 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin.

## CATCH PER UNIT OF EFFORT (CPE)

Number of vessel deliveries and whitefish landings (production in kilograms round weight) by weekly intervals for each administrative area (Table 5) were calculated as described by Moshenko et al. (1978; 1981) and Moshenko and Low (1979; 1980).

Total whitefish production, estimates for total numbers of nets used and CPE (kilograms round weight/91 m/24 h) by weekly intervals (Tables 6-12) were calculated as described by Moshenko et al. (1978; 1981) and Moshenko and Low (1979; 1980).

## FISHERY OBSERVATIONS

Fishery observations were conducted by placing Department of Fisheries and Oceans (DFO) summer staff on board commerical fishing vessels. These DFO observers accompanied the fishermen when they left port in the morning and returned with them the same day. Fishermen were interviewed for information pertaining to number of nets set, location and duration of net-gang sets, mesh size, mesh depth, twine size, depth fished, descriptive features of the fishing vessel and size of the crew. As the nets were lifted, observers kept a record of the number of fish of each species caught and culled per net-gang (usually 5-8 nets). Observations were conducted in 1982 during June, July and August in all areas in the general vicinity of the four fish plants with an attempt to obtain information on all types of fishing vessels from each area.

## BIOLOGICAL DATA

The scale age of whitefish was determined by counting the number of completed annuli e.g., an age 10 fish was in its eleventh year.

Annual mortality rates (natural and fishing) were calculated using the method (all ages known) outlined by Robson and Chapman (1961). The total annual mortality is defined as the number of fish which die during a year, divided by the initial number (Ricker 1975). The right hand descending portion of a catch curve may be used to estimate annual mortality rates if the following assumptions can be met:

i) constant survival or mortality rates over the range of age classes, and with time,
ii) constant year class strength (even recruitment), and
iii) all fish beyond some age are equally vulnerable to the harvesting gear.

Ricker (1975) indicated that the modal age in the catch curve will commonly lie quite close to the first year in which recruitment can be considered effectively complete. Recruitment is defined as the addition of new fish to the vulnerable population by growth among small size categories. In our calculations, we first selected the modal age class and then chose the next older age class to be sure that all fish beyond this age are at the age of effectively complete recruitment and fully susceptible to the gear.

The majority of the data collected during the study were analyzed using the computer facilities at the University of Manitoba as well as a Hewlett Packard (model 9810 A) programmable calculator.

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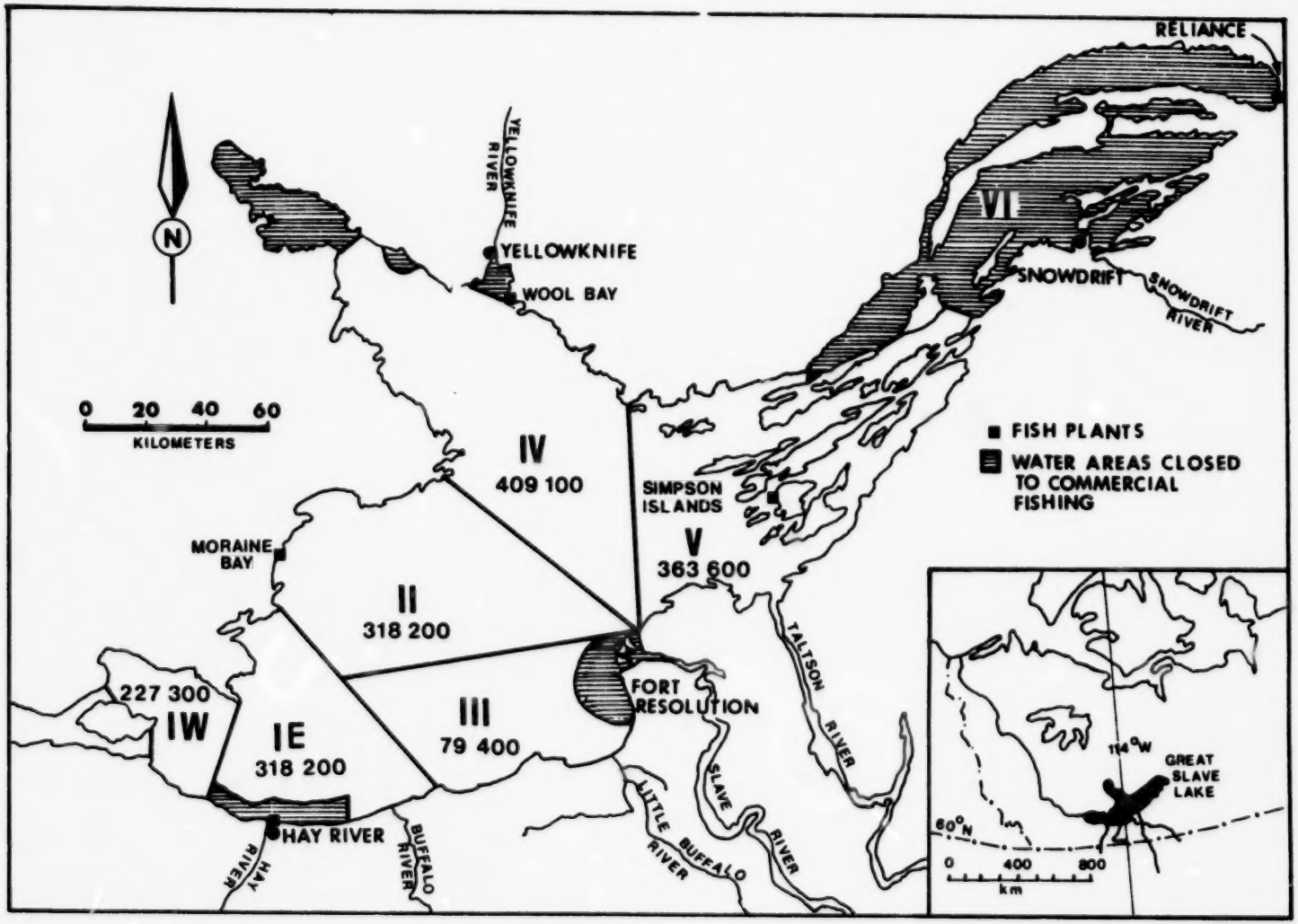


Fig. 1. Map of Great Slave Lake showing the adminstrative areas and quotas (kilograms round weight) in effect during 1982, areas closed to commercial fishing and the location of fish plants.

Table 1. Total production of commercial species (kilograms round weight) by administrative area, 1982.

| Species | Production from each administrative area | | | | | | Total |
|---|---|---|---|---|---|---|---|
| | IW | IE | II | III | IV | V | |
| Whitefish | 215 977 | 158 585 | 130 070 | 70 863 | 331 660 | 231 454 | 1 138 609 |
| Trout | 765 | 3 225 | 329 | Nil | 234 | 70 226 | 74 779 |
| Pike | 67 381 | 23 645 | 8 955 | 3 032 | 22 759 | 39 754 | 165 526 |
| Inconnu | 1 602 | 5 773 | 182 | 2 013 | 296 | 13 082 | 22 948 |
| Walleye | 804 | 1 657 | 44 | 1 426 | 507 | 3 328 | 7 766 |
| Total | 286 529 | 192 885 | 139 580 | 77 334 | 355 456 | 357 844 | 1 409 628 |

Table 2. Production of whitefish and trout (kilograms round weight) from each administrative area for winter and summer seasons, 1982.

| Administrative Area | Winter | | Summer | | Total | | Combined Total | Annual Quota[1] |
|---|---|---|---|---|---|---|---|---|
| | Whitefish | Trout | Whitefish | Trout | Whitefish | Trout | | |
| IW | 159 493 | 286 | 56 484 | 479 | 215 977 | 765 | 216 742 | 227 300 |
| IE | 52 025 | 109 | 106 560 | 3 116 | 158 585 | 3 225 | 161 810 | 318 200 |
| II | 20 342 | 50 | 109 728 | 279 | 130 070 | 329 | 130 399 | 318 200 |
| III | Nil | Nil | 70 863 | Nil | 70 863 | Nil | 70 863 | 79 400 |
| IV | 42 973 | Nil | 288 687 | 234 | 331 660 | 234 | 331 894 | 409 100 |
| V | 49 975 | 3 156 | 181 479 | 67 070 | 231 454 | 70 226 | 301 680 | 363 600 |
| Total | 324 808 | 3 601 | 813 801 | 71 178 | 1 138 609 | 74 779 | 1 213 388 | 1 715 800 |

[1] November 1, 1981 - October 31, 1982.

Table 3. Winter and summer prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Hay River Plant, from Great Slave Lake, N.W.T. for 1982.

| Species and Form | Winter 1981-82[1] | | | Summer 1982[2] | | |
|---|---|---|---|---|---|---|
| | Nov. 1 | Feb. 28 | Mar. 14 | Total | GNWT[3] | FFMC[4] |
| Whitefish (dressed) | | | | | | |
| large smokers | 115 | 159 | 170 | 89 | 17 | 72 |
| medium smokers | 126 | 159 | 181 | 89 | 17 | 72 |
| jumbo (1.8 kg) | 137 | 159 | 170 | 94 | 11 | 83 |
| large (1.4-1.8 kg) | 115 | 148 | 159 | 89 | 17.6 | 71.4 |
| medium (0.8-1.4 kg) | 104 | 148 | 170 | 88 | 27.5 | 60.5 |
| small (0.45-0.8 kg) | 104 | 137 | 159 | 50 | 11 | 39 |
| Lake trout | | | | | | |
| dressed - medium (1.8-3.6 kg) | 121 | 121 | 121 | 89 | 11 | 78 |
| - small (0.9-1.8 kg) | 88 | 88 | 88 | 74 | 11 | 63 |
| headless dressed (3.6 kg) | 132 | 132 | 132 | 89 | 11 | 78 |
| Pickerel | | | | | | |
| round - large | 266 | 266 | 266 | NA | NA | NA |
| - medium | 266 | 266 | 266 | NA | NA | NA |
| - small | 200 | 200 | 200 | NA | NA | NA |
| headless dressed - large | 263 | 330 | 330 | 199 | NA | 199 |
| - medium | 330 | 330 | 330 | 199 | NA | 199 |
| - small | 330 | 263 | 263 | 199 | NA | 199 |
| Northern Pike | | | | | | |
| head-on dressed (0.9-1.8 kg) | 49 | 49 | 49 | 45 | 11 | 34 |
| (1.8-4.1 kg) | 78 | 78 | 78 | 70 | 11 | 59 |
| headless dressed | 48.5 | 48.5 | 48.5 | 45 | 11 | 34 |
| Inconnu | | | | | | |
| headless dressed | 113.5 | 113.5 | 113.5 | 110 | NA | 110 |

1 25% of the price was deducted for fish delivered frozen.
2 A freight charge of 6.6¢/kg was deducted for fish delivered to the Moraine Bay, Wool Bay and Simpson Islands fish stations.
3 Government of the Northwest Territories - additional subsidy prices in summer 1982 as listed.
4 Freshwater Fish Marketing Corporation prices.
NA = Not applicable.

Note: In addition, final payments were provided to and received by fishermen on 1 January, 1983 for the fish produced during the 1982 season (1 November, 1981-31 October, 1982) as follows: whitefish (medium)-2.2¢/kg; pickerel (round)-18.7¢/kg; pickerel (headless dressed)-27.2¢/kg; northern pike-15.3¢/kg; and inconnu (headless dressed)-68.3¢/kg.

Table 4. Information on vehicle and vessel observations, number of men and number of nets used in the Great Slave Lake commercial fishery, winter 1981-82 and summer 1982.

WINTER FISHERY[1] (November - May)

| License Class[2] | No. Licenses Approved | No. Licenses Issued | No. of Vehicles Producing | Total No. Men | No. Men Per Vehicle | No. Nets Per Vehicle |
|---|---|---|---|---|---|---|
| A | 32 | 22 | 12 | 39 | 3.2 | 30 |
| B | 30 | 13 | 13 | 19 | 1.5 | 15 |
| Total | 62 | 35 | 25 | 58 | | |

SUMMER FISHERY (June - October)

| License Class[3] | No. Licenses Approved[1] | No. Licenses Issued[1] | No. of Vehicles Producing[1] | Total No. Men[4] | No. Men Per Vehicle[4] | No. Nets Per Vehicle[4] |
|---|---|---|---|---|---|---|
| A | 28 | 22 | 19 | 82 | 4.3 | 33.9 |
| B | 80 | 56 | 31 | 71 | 2.3 | 16.3 |
| Total | 108 | 78 | 50 | 153 | | |

1 Information obtained from Field Services records, Hay River.
2 License class A includes bombadiers; license class B includes skidoos.
3 License class A includes whitefish boats and bowpickers; license class B includes skiffs.
4 Information based on the 1982 fishery observation records.

Table 5 . Number of vessel deliveries and whitefish landings (production in kilograms round weight) by weekly intervals for each administrative area, June to October, 1982.

| Week | June | | | | July | | | | August | | | | | September | | | | October | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 13 | 20 | 27 | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | |
| Area IE | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | 2 | 7 | 13 | 18 | 15 | 11 | 9 | 12 | 11 | 12 | 3 | 7 | 8 | 3 | 4 | 6 | 4 | 2 | 147 |
| Class B | 8 | 9 | 11 | 8 | 12 | - | 7 | 7 | 8 | 12 | 6 | 6 | 4 | 2 | 6 | 14 | 6 | 5 | 3 | 8 | 2 | 144 |
| Production | 249 | 501 | 467 | 305 | 10 330 | 19 932 | 11 969 | 5 483 | 4 830 | 6 9 1 | 5 674 | 6 746 | 4 612 | 599 | 2 027 | 3 123 | 2 728 | 4 363 | 1 994 | 10 417 | 3 227 | 106 560 |
| Area IW | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | 7 | 13 | 16 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 |
| Class B | - | - | 10 | 13 | 34 | 23 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 83 |
| Production | - | - | 2 966 | 9 081 | 27 495 | 12 404 | 4 538 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 484 |
| Area II | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | - | - | - | - | 2 | 14 | 23 | 17 | 18 | 11 | 14 | 5 | 8 | 3 | - | - | - | - | 115 |
| Class B | - | - | - | - | - | - | - | - | 3 | 9 | 5 | 3 | 3 | 5 | - | 1 | - | - | - | - | - | 29 |
| Production | - | - | - | - | - | - | - | 2 366 | 8 348 | 23 462 | 14 572 | 16 562 | 10 290 | 12 655 | 8 092 | 10 718 | 2 663 | - | - | - | - | 109 729 |
| Area III | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | - | - | - | 4 | 4 | 3 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 1 | 2 | 2 | 1 | 3 | 46 |
| Class B | - | - | - | - | - | - | - | 3 | 7 | 4 | 4 | 3 | 2 | 1 | 5 | 4 | 2 | 4 | 3 | 6 | 6 | 54 |
| Production | - | - | - | - | - | - | 3 065 | 3 854 | 7 679 | 7 846 | 15 805 | 4 902 | 2 289 | 2 128 | 6 102 | 5 168 | 2 489 | 2 361 | 3 339 | 1 839 | 1 997 | 70 863 |
| Area IV | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | - | - | - | 16 | 4 | 25 | 46 | 25 | 19 | 19 | 22 | 25 | 39 | 13 | 12 | - | - | - | 265 |
| Class B | - | - | - | - | - | - | 3 | 1 | 8 | 14 | 9 | 9 | 8 | 7 | 5 | 17 | 4 | 7 | - | - | 7 | 99 |
| Production | - | - | - | - | - | - | 17 641 | 4 469 | 15 924 | 26 616 | 18 060 | 15 291 | 6 083 | 45 605 | 42 952 | 58 307 | 15 226 | 21 183 | - | - | 1 330 | 288 687 |
| Area V | | | | | | | | | | | | | | | | | | | | | | |
| Class A | - | - | - | - | - | - | 4 | 10 | 20 | 21 | 20 | 22 | 16 | 20 | 21 | 23 | 21 | 19 | - | - | - | 217 |
| Class B | - | - | - | - | - | - | 3 | 9 | 19 | 20 | 22 | 19 | 17 | 20 | 18 | 17 | 17 | 10 | - | - | - | 211 |
| Production | - | - | - | - | - | - | 2 353 | 4 581 | 13 972 | 18 475 | 16 269 | 15 436 | 11 349 | 15 002 | 18 467 | 28 577 | 18 820 | 18 178 | - | - | - | 181 479 |
| All areas | | | | | | | | | | | | | | | | | | | | | | 181 479 |
| Class A | - | - | - | 9 | 20 | 29 | 47 | 35 | 73 | 102 | 78 | 75 | 60 | 62 | 62 | 83 | 41 | 37 | 8 | 5 | 5 | 831 |
| Class B | 8 | 9 | 21 | 21 | 46 | 23 | 16 | 20 | 45 | 59 | 46 | 40 | 34 | 35 | 34 | 73 | 29 | 26 | 6 | 14 | 15 | 620 |
| Production | 249 | 501 | 3 433 | 9 386 | 37 825 | 32 336 | 39 566 | 20 753 | 50 753 | 83 383 | 70 380 | 58 937 | 34 623 | 75 989 | 77 640 | 105 893 | 41 926 | 46 085 | 5 333 | 12 256 | 6 554 | 813 801 |

Table 6. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for all areas.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| June 6 | 249 | 128 | 1.9 |
| 13 | 501 | 144 | 3.5 |
| 20 | 3 433 | 336 | 10.2 |
| 27 | 9 386 | 1 011 | 9.3 |
| Total | 13 569 | 1 619 | 8.4 |
| July 4 | 37 825 | 2 236 | 16.9 |
| 11 | 32 336 | 2 543 | 12.7 |
| 18 | 39 566 | 3 781 | 10.5 |
| 25 | 20 753 | 2 945 | 7.0 |
| Total | 130 480 | 11 505 | 11.3 |
| August 1 | 50 753 | 6 195 | 8.2 |
| 8 | 83 383 | 8 594 | 9.7 |
| 15 | 70 380 | 6 586 | 10.7 |
| 22 | 58 937 | 6 265 | 9.4 |
| 29 | 34 623 | 5 044 | 6.9 |
| Total | 298 076 | 32 684 | 9.1 |
| September 5 | 75 989 | 5 210 | 14.6 |
| 12 | 77 640 | 5 194 | 14.9 |
| 19 | 105 893 | 7 393 | 14.3 |
| 26 | 41 926 | 3 539 | 11.8 |
| Total | 301 448 | 21 336 | 14.1 |
| October 3 | 46 085 | 3 191 | 14.4 |
| 10 | 5 333 | 696 | 7.7 |
| 17 | 12 256 | 599 | 20.5 |
| 24 | 6 554 | 615 | 10.7 |
| Total | 70 228 | 5 101 | 13.8 |
| Season Total | 813 801 | 72 245 | 11.3 |

[1] Calculation described by Moshenko et al. (1981).
[2] Round weight.

Table 7. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area 1E.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| June 6 | 249 | 128 | 1.9 |
| 13 | 501 | 144 | 3.5 |
| 20 | 467 | 176 | 2.7 |
| 27 | 305 | 278 | 1.1 |
| Total | 1 522 | 726 | 2.1 |
| July 4 | 10 330 | 717 | 14.4 |
| 11 | 19 932 | 975 | 20.4 |
| 18 | 11 969 | 1 462 | 8.2 |
| 25 | 5 483 | 1 237 | 4.4 |
| Total | 47 714 | 4 391 | 10.9 |
| August 1 | 4 830 | 953 | 5.1 |
| 8 | 6 984 | 817 | 8.5 |
| 15 | 5 674 | 996 | 5.7 |
| 22 | 6 746 | 921 | 7.3 |
| 29 | 4 612 | 964 | 4.8 |
| Total | 28 846 | 4 651 | 6.2 |
| September 5 | 599 | 257 | 2.3 |
| 12 | 2 027 | 621 | 3.3 |
| 19 | 3 123 | 824 | 3.8 |
| 26 | 2 728 | 321 | 8.5 |
| Total | 8 477 | 2 023 | 4.2 |
| October 3 | 4 363 | 380 | 11.5 |
| 10 | 1 994 | 498 | 4.0 |
| 17 | 10 417 | 428 | 24.3 |
| 24 | 3 227 | 182 | 17.7 |
| Total | 20 001 | 1 488 | 13.4 |
| Season Total | 106 560 | 13 279 | 8.0 |

1 Calculation described by Moshenko et al. (1981).
2 Round Weight.

Table 8. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area 1W.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| June 20 | 2 966 | 160 | 18.5 |
| 27 | 9 081 | 733 | 12.4 |
| Total | 12 047 | 893 | 13.5 |
| July 4 | 27 495 | 1 519 | 18.1 |
| 11 | 12 404 | 1 568 | 7.9 |
| 18 | 4 538 | 423 | 10.7 |
| Total | 44 437 | 3 510 | 12.7 |
| Season Total | 56 484 | 4 403 | 12.8 |

1 Calculation described by Moshenko et al. (1981).
2 Round weight.

Table 9. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area II.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| July 25 | 2 366 | 150 | 15.8 |
| Total | 2 366 | 150 | 15.8 |
| August 1 | 8 348 | 1 098 | 7.6 |
| 8 | 23 462 | 1 869 | 12.6 |
| 15 | 14 572 | 1 355 | 10.8 |
| 22 | 16 562 | 1 398 | 11.8 |
| 29 | 10 290 | 873 | 11.8 |
| Total | 73 234 | 6 593 | 11.1 |
| September 5 | 12 655 | 1 105 | 11.5 |
| 12 | 8 092 | 375 | 21.6 |
| 19 | 10 718 | 616 | 17.4 |
| 26 | 2 663 | 225 | 11.8 |
| Total | 34 128 | 2 321 | 14.7 |
| Season Total | 109 728 | 9 064 | 12.1 |

1 Calculation described by Moshenko et al. (1981).
2 Round weight.

Table 10. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area III.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| July 18 | 3 065 | 300 | 10.2 |
| 25 | 3 854 | 348 | 11.1 |
| Total | 6 919 | 648 | 10.7 |
| August 1 | 7 679 | 337 | 22.8 |
| 8 | 7 846 | 289 | 27.1 |
| 15 | 15 805 | 364 | 43.4 |
| 22 | 4 902 | 600 | 8.2 |
| 29 | 2 289 | 182 | 12.6 |
| Total | 38 521 | 1 772 | 21.7 |
| September 5 | 2 128 | 241 | 8.8 |
| 12 | 6 102 | 380 | 16.1 |
| 19 | 5 168 | 439 | 11.8 |
| 26 | 2 489 | 102 | 24.4 |
| Total | 15 887 | 1 162 | 13.7 |
| October 3 | 2 361 | 214 | 11.0 |
| 10 | 3 339 | 375 | 8.9 |
| 17 | 1 839 | 171 | 10.8 |
| 24 | 1 997 | 321 | 6.2 |
| Total | 9 536 | 1 081 | 8.8 |
| Season Total | 70 863 | 4 663 | 15.2 |

1 Calculation described by Moshenko et al. 1981.
2 Round weight.

Table 11. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area IV.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| July 18 | 17 641 | 1 248 | 14.1 |
| 25 | 4 469 | 316 | 14.1 |
| Total | 22 110 | 1 564 | 14.1 |
| August 1 | 15 924 | 2 003 | 8.0 |
| 8 | 26 616 | 3 674 | 7.2 |
| 15 | 18 060 | 2 019 | 8.9 |
| 22 | 15 291 | 1 569 | 9.7 |
| 29 | 6 083 | 1 603 | 3.8 |
| Total | 81 974 | 10 868 | 7.5 |
| September 5 | 45 605 | 1 762 | 25.9 |
| 12 | 42 952 | 1 955 | 22.0 |
| 19 | 58 307 | 3 197 | 18.2 |
| 26 | 15 226 | 1 039 | 14.7 |
| Total | 162 090 | 7 953 | 20.4 |
| October 3 | 21 183 | 1 012 | 20.9 |
| 10 | - | - | |
| 17 | - | - | |
| 24 | 1 330 | 112 | 11.9 |
| Total | 22 513 | 1 124 | 20.0 |
| Season Total | 288 687 | 21 509 | 13.4 |

[1] Calculation described by Moshenko et al. (1981).
[2] Round weight.

Table 12. Total whitefish production, estimates for total number of nets used and CPE by weekly intervals for Area V.

| Week ending | Production (kg round wt) | No. of nets used[1] | CPE (kg/91m/24h)[2] |
|---|---|---|---|
| July 18 | 2 353 | 348 | 6.8 |
| 25 | 4 581 | 894 | 5.1 |
| Total | 6 934 | 1 242 | 5.6 |
| August 1 | 13 972 | 1 804 | 7.7 |
| 8 | 18 475 | 1 895 | 9.7 |
| 15 | 16 269 | 1 852 | 8.8 |
| 22 | 15 436 | 1 954 | 7.9 |
| 29 | 11 349 | 1 472 | 7.7 |
| Total | 75 501 | 8 977 | 8.4 |
| September 5 | 15 002 | 1 820 | 8.2 |
| 12 | 18 467 | 1 863 | 9.9 |
| 19 | 28 577 | 2 317 | 12.3 |
| 26 | 18 820 | 1 847 | 10.2 |
| Total | 80 866 | 7 847 | 10.3 |
| October 3 | 18 178 | 1 585 | 11.5 |
| Total | 18 178 | 1 585 | 11.5 |
| Season Total | 181 479 | 19 651 | 9.2 |

[1] Calculation described by Moshenko et al. (1981).
[2] Round weight.

Table 13. Percent cullage of lake whitefish by nights nets down for each administrative area and vessel class from fishery observations on Great Slave Lake, summer 1982.

| Area | Vessel Class | No. of Observations | No. Nights Nets Down | No. Nets Used | Whitefish Caught | | |
|---|---|---|---|---|---|---|---|
| | | | | | Total | No. Culled | % Culled |
| IW | A | 2 | 1 | 96 | 1 469 | 12 | 0.8 |
| | | 1 | 2 | 30 | 771 | 17 | 2.2 |
| | | 1 | 3 | 39 | 741 | 75 | 10.1 |
| | B | 4 | 1 | 85 | 688 | 16 | 3.5 |
| IE | A | 1 | 3 | 35 | 590 | 32 | 5.4 |
| | | 1 | 5 | 8 | 233 | 155 | 66.5 |
| II | A | 3 | 1 | 51 | 1 297 | 18 | 1.4 |
| | | 6 | 2 | 196 | 3 067 | 58 | 1.9 |
| | | 2 | 3 | 60 | 928 | 33 | 3.6 |
| | B | 4 | 2 | 56 | 589 | 14 | 2.4 |
| III | B | 4 | 1 | 59 | 880 | 53 | 6.0 |
| IV | A | 1 | 1 | 24 | 648 | 38 | 5.9 |
| | | 3 | 2 | 79 | 1 694 | 57 | 3.4 |
| | | 1 | 4 | 18 | 470 | 3 | 0.6 |
| V | A | 1 | 2 | 42 | 435 | 3 | 0.7 |
| | | 1 | 3 | 33 | 716 | 22 | 3.1 |
| | B | 3 | 1 | 45 | 308 | 10 | 3.2 |
| Total | A | 24 | 52 | 711 | 13 059 | 522 | 4.0 |
| | B | 15 | 19 | 245 | 2 465 | 93 | 3.8 |
| | A&B | 39 | 71 | 956 | 15 524 | 615 | 4.0 |

Table 14. Summary information on vessel class and gillnets used during the summer commercial fishery from fishery observations on Great Slave Lake, N.W.T. for 1982.

| Area | Class A Vessel | | | Class B Vessel | | |
|---|---|---|---|---|---|---|
| | No. of Observations | No. nets used | No. fishing days | No. of Observations | No. nets used | No. fishing days |
| IW | 4 | 165 | 7 | 4 | 85 | 4 |
| IE | 2 | 43 | 8 | - | - | - |
| II | 8 | 307 | 21 | 4 | 56 | 8 |
| III | - | - | - | 4 | 59 | 4 |
| IV | 5 | 121 | 11 | - | - | - |
| V | 2 | 75 | 5 | 3 | 45 | 3 |
| Total | 21 | 711 | 52 | 15 | 245 | 19 |
| Mean no. nets/boat | | 33.9 | | | 16.3 | |
| Mean no. nets lifted/day | | 28.4 | | | 15.8 | |
| Mean no. net gangs lifted/day | | 4.2 | | | 4.8 | |
| Depth of net (meshes) | | 30-80 | | | 24-60 | |
| Mean no. men/boat | | 4.3 | | | 2.3 | |
| % 139 mm nets used | | 4.9 | | | 0.0 | |

Table 15. Species composition and catch per unit effort (CPE) for each administratiive area from fishery observations, summer 1982.

| | Area IW | | | | Area IE | | | | Area II | | | | Area III | | | | Area IV | | | | Area V | | | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Meters of net | 32 578 | | | | 11 557 | | | | 66 885 | | | | 5 369 | | | | 20 930 | | | | 20 748 | | | | 158 067 | | | |
| | Fish Caught | | CPE | | Fish Caught | | CPE | | Fish Caught | | CPE | | Fish Caught | | CPE | | Fish Caught | | CPE | | Fish Caught | | CPE | | Fish Caught | | CPE | |
| Species | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] | No. | % of total | No.[1] | Wt.[2] |
| Lake whitefish[3] | 3 669 | 68.6 | 10.2 | 13.1 | 823 | 40.0 | 6.5 | 7.5 | 5 881 | 73.9 | 8.0 | 8.3 | 880 | 48.0 | 14.9 | 21.8 | 2 812 | 71.7 | 12.2 | 13.1 | 1 459 | 49.0 | 6.4 | 7.2 | 15 524 | 62.6 | 8.9 | 10.4 |
| Lake trout | 2 | <0.1 | <0.1 | | 43 | 2.1 | 0.3 | | 3 | <0.1 | <0.1 | | - | - | - | - | - | - | - | - | 199 | 6.7 | 0.9 | | 247 | 1.0 | 0.1 | |
| Walleye | 1 | <0.1 | <0.1 | | - | - | - | - | - | - | - | - | 1 | <0.1 | <0.1 | | 31 | 0.8 | 0.1 | - | 5 | <0.1 | <0.1 | | 38 | 0.2 | <0.1 | - |
| Northern pike | 664 | 12.4 | 1.9 | - | - | - | - | - | 113 | 1.4 | 0.2 | - | - | - | - | - | 183 | 4.7 | 0.8 | - | 46 | 1.5 | 0.2 | - | 1 006 | 4.1 | 0.6 | - |
| Inconnu | 10 | 0.2 | <0.1 | | 25 | <0.1 | 0.2 | | 1 | <0.1 | <0.1 | | 5 | <0.1 | <0.1 | | 3 | <0.1 | <0.1 | | 28 | 0.9 | 0.1 | - | 72 | 0.3 | <0.1 | - |
| Cisco | 9 | 0.2 | <0.1 | | 82 | <0.1 | 0.6 | 0.4 | 818 | 10.3 | 1.1 | 0.7 | 271 | 14.8 | 4.6 | 3.1 | 384 | 9.8 | 1.7 | 1.1 | 763 | 25.6 | 3.4 | 2.2 | 2 327 | 9.4 | 1.3 | 0.9 |
| Longnose sucker | 743 | 13.9 | 2.1 | 2.9 | 948 | 46.1 | 7.5 | 10.5 | 83 | 1.0 | 0.1 | 0.2 | 345 | 18.8 | 5.8 | 8.2 | 188 | 4.8 | 0.8 | 1.2 | 323 | 10.8 | 1.4 | 2.0 | 2 630 | 10.6 | 1.5 | 2.1 |
| White sucker | 4 | <0.1 | <0.1 | | - | - | - | - | 2 | <0.1 | <0.1 | | 1 | <0.1 | <0.1 | | - | - | - | - | - | - | - | - | 7 | <0.1 | <0.1 | |
| Burbot | 244 | 4.6 | 0.7 | 1.3 | 135 | 6.6 | 1.1 | 2.0 | 1 055 | 13.3 | 1.4 | 1.0 | 330 | 5.6 | 5.6 | 10.6 | 320 | 8.2 | 1.4 | 2.6 | 156 | 5.2 | 0.7 | 1.3 | 2 240 | 9.0 | 1.3 | 2.5 |
| Arctic grayling | 2 | <0.1 | <0.1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | 2 | <0.1 | <0.1 | |
| Total | 5 348 | | 14.9 | - | 2 056 | | 16.2 | - | 7 956 | | 10.7 | - | 1 833 | | 30.9 | | 3 921 | | 17.0 | | 2 979 | | 13.1 | | 24 793 | | 14.3 | - |

1 Number of fish/91 m of net/24 hour period.
2 Round weight of fish (kg)/91 m of net/24 hour period.
3 Mean round weight converted from dressed weight of 1982 plant samples.

Table 16. Weight composition by market weight intervals for lake whitefish from commercial plant samples on Great Slave Lake, 1982.

| Market Weight Interval (Dressed) | Area IE | | Area IW | | Area II | | Area III | | Area IV | | Area V | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| No Market (0-1 lb., 0-454 g.) | 1 | <1 | - | - | 1 | <1 | - | - | 2 | <1 | - | - | 4 | <1 |
| Small (1-1.5 lb, 682-1 362 g) | 24 | 3 | 13 | 3 | 35 | 8 | 1 | <1 | 49 | 6 | 19 | 3 | 141 | 4 |
| Medium (1.5-3 lb., 1 363-1 816 g) | 767 | 91 | 346 | 81 | 376 | 90 | 293 | 70 | 778 | 93 | 592 | 94 | 3 152 | 88 |
| Large (3-4 lb., 1 363-1 816 g) | 49 | 6 | 55 | 13 | 5 | 1 | 104 | 25 | 8 | <1 | 14 | 2 | 235 | 7 |
| Jumbo (>4 lb., >1 816 g) | 2 | <1 | 11 | 3 | 1 | <1 | 21 | 5 | 1 | <1 | 2 | <1 | 38 | 1 |
| Total | 843 | | 425 | | 418 | | 419 | | 838 | | 627 | | 3 570 | |

Table 17. Age composition of commercial whitefish for all areas combined from Great Slave Lake commercial fishery, 1982.

| AGE (YR) | NO. | % | FORK LENGTH(MM) MEAN | FORK LENGTH(MM) SD. | DRESSED WEIGHT (G) MEAN | DRESSED WEIGHT (G) SD. |
|---|---|---|---|---|---|---|
| 5 | 1 | - | 322 | - | 450 | - |
| 6 | 16 | 0.5 | 379 | 23.0 | 694 | 110.9 |
| 7 | 103 | 3.1 | 380 | 23.0 | 734 | 133.1 |
| 8 | 174 | 5.2 | 388 | 22.3 | 784 | 136.4 |
| 9 | 353 | 10.5 | 400 | 23.8 | 855 | 160.9 |
| 10 | 481 | 14.3 | 407 | 23.1 | 915 | 162.1 |
| 11 | 742 | 22.1 | 417 | 24.8 | 984 | 194.5 |
| 12 | 787 | 23.4 | 426 | 27.0 | 1055 | 222.3 |
| 13 | 457 | 13.6 | 434 | 28.6 | 1126 | 251.4 |
| 14 | 143 | 4.3 | 442 | 33.4 | 1187 | 310.2 |
| 15 | 73 | 2.2 | 459 | 43.8 | 1327 | 495.3 |
| 16 | 18 | 0.5 | 465 | 34.2 | 1422 | 427.8 |
| 17 | 7 | 0.2 | 491 | 26.6 | 1543 | 292.2 |
| 18 | 3 | - | 447 | 8.7 | 1150 | 0.0 |
| 19 | 1 | - | 550 | - | 2100 | - |
| 20 | 1 | - | 532 | - | 2300 | - |
| TOTAL | 3360 | | | | | |
| MEAN | | | 418 | 31.4 | 997 | 254.0 |
| MEAN AGE | 12.5 | | | | | |

Table 18. Age composition of commercial whitefish for each seasonal period from area IW, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | - | - | - | 2 | 414 | 875 | - | - | - | - | - | - | 2 | 414 | 8.5 | 875 | 35.4 |
| 7 | 8 | 383 | 725 | 4 | 407 | 875 | - | - | - | - | - | - | 12 | 391 | 25.1 | 775 | 187.7 |
| 8 | 15 | 385 | 750 | 11 | 412 | 927 | - | - | - | - | - | - | 26 | 396 | 24.8 | 825 | 177.3 |
| 9 | 26 | 391 | 800 | 20 | 433 | 1093 | - | - | - | - | - | - | 46 | 409 | 31.0 | 927 | 236.6 |
| 10 | 34 | 400 | 866 | 19 | 439 | 1138 | - | - | - | - | - | - | 53 | 414 | 28.1 | 964 | 205.4 |
| 11 | 33 | 410 | 912 | 26 | 441 | 1123 | - | - | - | - | - | - | 59 | 423 | 32.1 | 1005 | 247.5 |
| 12 | 55 | 419 | 965 | 39 | 460 | 1282 | - | - | - | - | - | - | 94 | 436 | 33.4 | 1096 | 271.4 |
| 13 | 20 | 428 | 980 | 40 | 465 | 1351 | - | - | - | - | - | - | 60 | 453 | 35.9 | 1227 | 322.0 |
| 14 | 8 | 459 | 1213 | 10 | 481 | 1508 | - | - | - | - | - | - | 18 | 471 | 28.5 | 1377 | 329.5 |
| 15 | 1 | 440 | 1000 | 8 | 524 | 1750 | - | - | - | - | - | - | 9 | 515 | 42.6 | 1667 | 391.3 |
| 16 | 1 | 448 | 1100 | 4 | 486 | 1575 | - | - | - | - | - | - | 5 | 479 | 30.2 | 1480 | 286.4 |
| 17 | - | - | - | 5 | 503 | 1690 | - | - | - | - | - | - | 5 | 503 | 20.6 | 1690 | 134.2 |
| 19 | - | - | - | 1 | 550 | 2100 | - | - | - | - | - | - | 1 | 550 | - | 2100 | - |
| TOTAL | 201 | | | 189 | | | - | | | - | | | 390 | | | | |
| MEAN | | 409 | 905 | | 455 | 1260 | | - | - | | - | - | | 432 | 40.8 | 1077 | 323.0 |
| MEAN AGE | 10.8 | | | 11.6 | | | - | | | - | | | 11.2 | | | | |

Table 19. Age composition of commercial whitefish for each seasonal period from area IE, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 2 | 358 | 575 | - | - | - | - | - | - | - | - | - | 2 | 358 | 21.2 | 575 | 35.4 |
| 7 | 5 | 388 | 780 | 2 | 362 | 650 | 1 | 387 | 800 | 1 | 382 | 700 | 9 | 381 | 14.6 | 744 | 95.0 |
| 8 | 7 | 388 | 764 | 5 | 354 | 630 | 2 | 380 | 725 | 4 | 377 | 675 | 18 | 375 | 22.2 | 703 | 113.1 |
| 9 | 25 | 390 | 768 | 19 | 379 | 795 | 24 | 411 | 888 | 28 | 405 | 868 | 96 | 397 | 21.7 | 832 | 134.0 |
| 10 | 38 | 405 | 861 | 22 | 399 | 886 | 28 | 412 | 918 | 49 | 421 | 986 | 137 | 411 | 21.4 | 921 | 154.6 |
| 11 | 46 | 407 | 869 | 52 | 408 | 948 | 45 | 434 | 1077 | 65 | 429 | 1050 | 208 | 420 | 22.6 | 990 | 176.9 |
| 12 | 51 | 418 | 943 | 49 | 412 | 993 | 59 | 443 | 1131 | 39 | 436 | 1132 | 198 | 428 | 24.9 | 1048 | 196.9 |
| 13 | 22 | 422 | 968 | 29 | 425 | 1126 | 26 | 447 | 1208 | 10 | 457 | 1305 | 87 | 435 | 26.1 | 1131 | 218.0 |
| 14 | 5 | 423 | 960 | 6 | 428 | 1142 | 12 | 454 | 1208 | 1 | 472 | 1500 | 24 | 442 | 26.4 | 1152 | 214.4 |
| 15 | - | - | - | 5 | 472 | 1620 | 4 | 466 | 1288 | - | - | - | 9 | 469 | 24.6 | 1472 | 333.6 |
| 16 | - | - | - | - | - | - | - | - | - | 2 | 477 | 1450 | 2 | 477 | 4.9 | 1450 | 70.7 |
| 17 | - | - | - | - | - | - | 1 | 466 | 1350 | - | - | - | 1 | 466 | - | 1350 | - |
| TOTAL | 201 | | | 189 | | | 202 | | | 199 | | | 791 | | | | |
| MEAN | | 407 | 878 | | 408 | 977 | | 434 | 1073 | | 426 | 1034 | | 419 | 27.8 | 991 | 214.9 |
| MEAN AGE | 10.9 | | | 11.3 | | | 11.4 | | | 10.8 | | | 11.1 | | | | |

Table 20. Age composition of commercial whitefish for each seasonal period from area II, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | - | - | - | - | - | - | - | - | - | 1 | 322 | 450 | 1 | 322 | - | 450 | - |
| 6 | - | - | - | - | - | - | 2 | 377 | 750 | 5 | 370 | 640 | 7 | 372 | 18.3 | 671 | 107.5 |
| 7 | - | - | - | - | - | - | 25 | 377 | 730 | 33 | 372 | 691 | 58 | 374 | 19.2 | 708 | 109.9 |
| 8 | - | - | - | - | - | - | 20 | 388 | 785 | 37 | 388 | 793 | 57 | 388 | 16.8 | 790 | 102.4 |
| 9 | - | - | - | - | - | - | 42 | 402 | 847 | 46 | 402 | 834 | 88 | 402 | 18.7 | 840 | 119.7 |
| 10 | - | - | - | - | - | - | 34 | 418 | 931 | 31 | 402 | 856 | 65 | 410 | 19.6 | 895 | 112.4 |
| 11 | - | - | - | - | - | - | 33 | 426 | 995 | 24 | 423 | 973 | 57 | 425 | 18.8 | 986 | 125.3 |
| 12 | - | - | - | - | - | - | 27 | 443 | 1117 | 16 | 429 | 1016 | 43 | 438 | 20.8 | 1079 | 145.7 |
| 13 | - | - | - | - | - | - | 12 | 438 | 1117 | 9 | 440 | 1100 | 21 | 439 | 19.8 | 1110 | 182.8 |
| 14 | - | - | - | - | - | - | 3 | 448 | 1033 | - | - | - | 3 | 448 | 36.7 | 1033 | 175.6 |
| 15 | - | - | - | - | - | - | - | - | - | 3 | 454 | 1167 | 3 | 454 | 28.6 | 1167 | 275.4 |
| 18 | - | - | - | - | - | - | 1 | 445 | 1150 | - | - | - | 1 | 445 | - | 1150 | - |
| 20 | - | - | - | - | - | - | - | - | - | 1 | 532 | 2300 | 1 | 532 | - | 2300 | - |
| TOTAL | - | | | - | | | 199 | | | 206 | | | 405 | | | | |
| MEAN | | - | - | | - | - | | 413 | 921 | | 401 | 854 | | 407 | 29.6 | 887 | 190.8 |
| MEAN AGE | - | | | - | | | 9.9 | | | 9.3 | | | 9.6 | | | | |

Table 21. Age composition of commercial whitefish for each seasonal period from area III, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | - | - | - | - | - | - | 5 | 395 | 810 | 2 | 398 | 850 | 7 | 396 | 19.4 | 821 | 115.0 |
| 9 | - | - | - | - | - | - | 9 | 413 | 989 | 9 | 406 | 917 | 18 | 409 | 24.0 | 953 | 175.3 |
| 10 | - | - | - | - | - | - | 28 | 418 | 1050 | 15 | 434 | 1110 | 43 | 424 | 25.2 | 1071 | 213.0 |
| 11 | - | - | - | - | - | - | 68 | 433 | 1170 | 40 | 447 | 1233 | 108 | 439 | 26.5 | 1193 | 238.3 |
| 12 | - | - | - | - | - | - | 57 | 436 | 1219 | 64 | 453 | 1293 | 121 | 445 | 27.3 | 1258 | 260.2 |
| 13 | - | - | - | - | - | - | 25 | 436 | 1238 | 44 | 462 | 1426 | 69 | 452 | 32.5 | 1358 | 308.3 |
| 14 | - | - | - | - | - | - | 3 | 460 | 1450 | 15 | 483 | 1663 | 18 | 479 | 31.4 | 1628 | 322.8 |
| 15 | - | - | - | - | - | - | 1 | 501 | 1500 | 3 | 544 | 2833 | 4 | 533 | 22.8 | 2500 | 696.4 |
| 16 | - | - | - | - | - | - | - | - | - | 1 | 518 | 2300 | 1 | 518 | - | 2300 | - |
| TOTAL | - | | | - | | | 196 | | | 193 | | | 389 | | | | |
| MEAN | | - | - | | - | - | | 431 | 1164 | | 454 | 1332 | | 442 | 32.7 | 1248 | 328.0 |
| MEAN AGE | - | | | - | | | 11.3 | | | 11.9 | | | 11.6 | | | | |

Table 22. Age composition of commercial whitefish for each seasonal period from area IV, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 3 | 348 | 567 | - | - | - | - | - | - | - | - | - | 7 | 352 | 16.2 | 593 | 83.8 |
| 8 | 14 | 364 | 675 | - | - | - | 8 | 385 | 781 | 4 | 384 | 775 | 32 | 373 | 19.0 | 713 | 115.0 |
| 9 | 29 | 378 | 728 | - | - | - | 11 | 413 | 950 | 12 | 394 | 917 | 70 | 388 | 21.4 | 808 | 142.6 |
| 10 | 27 | 377 | 759 | - | - | - | 31 | 406 | 897 | 37 | 406 | 968 | 141 | 396 | 19.8 | 867 | 128.1 |
| 11 | 44 | 395 | 847 | - | - | - | 57 | 404 | 899 | 51 | 404 | 959 | 224 | 402 | 15.6 | 899 | 117.4 |
| 12 | 48 | 404 | 920 | - | - | - | 62 | 415 | 961 | 58 | 417 | 1073 | 206 | 410 | 18.3 | 972 | 154.7 |
| 13 | 29 | 410 | 1017 | - | - | - | 26 | 428 | 1063 | 25 | 418 | 1084 | 91 | 419 | 16.2 | 1048 | 128.6 |
| 14 | 5 | 407 | 1030 | - | - | - | 6 | 423 | 1033 | 6 | 432 | 1308 | 18 | 421 | 18.4 | 1128 | 173.4 |
| 15 | 2 | 472 | 1525 | - | - | - | 2 | 440 | 1275 | - | - | - | 5 | 457 | 32.7 | 1400 | 326.0 |
| 16 | 1 | 465 | 1150 | - | - | - | 1 | 453 | 1550 | 1 | 446 | 1200 | 3 | 455 | 9.6 | 1300 | 217.9 |
| TOTAL | 202 | | | - | | | 204 | | | 194 | | | 797 | | | | |
| MEAN | | 393 | 856 | | - | - | | 412 | 948 | | 410 | 1016 | | 403 | 22.1 | 921 | 168.3 |
| MEAN AGE | 11.0 | | | - | | | 11.3 | | | 11.3 | | | 11.1 | | | | |

Table 23. Age composition of commercial whitefish for each seasonal period from area V, 1982.

| AGE (YR) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 3 | 370 | 683 | - | - | - | 1 | 415 | 800 | 1 | 385 | 650 | 5 | 382 | 20.4 | 700 | 61.2 |
| 7 | 7 | 393 | 821 | - | - | - | 6 | 411 | 892 | 4 | 399 | 825 | 17 | 401 | 20.1 | 847 | 111.1 |
| 8 | 16 | 394 | 813 | - | - | - | 9 | 405 | 861 | 9 | 409 | 878 | 34 | 401 | 21.4 | 843 | 144.1 |
| 9 | 20 | 400 | 865 | - | - | - | 5 | 424 | 1000 | 10 | 416 | 930 | 35 | 408 | 25.2 | 903 | 171.5 |
| 10 | 13 | 399 | 842 | - | - | - | 19 | 407 | 895 | 10 | 403 | 815 | 42 | 403 | 16.6 | 860 | 111.1 |
| 11 | 24 | 405 | 871 | - | - | - | 29 | 415 | 934 | 33 | 412 | 914 | 86 | 411 | 18.8 | 909 | 115.1 |
| 12 | 37 | 414 | 946 | - | - | - | 49 | 421 | 991 | 39 | 417 | 956 | 125 | 418 | 20.8 | 967 | 151.3 |
| 13 | 38 | 418 | 988 | - | - | - | 43 | 430 | 1049 | 48 | 423 | 993 | 129 | 424 | 21.0 | 1010 | 162.6 |
| 14 | 26 | 414 | 933 | - | - | - | 12 | 457 | 1275 | 24 | 429 | 1042 | 62 | 428 | 26.6 | 1041 | 214.0 |
| 15 | 7 | 415 | 936 | - | - | - | 22 | 455 | 1268 | 14 | 426 | 979 | 43 | 439 | 31.8 | 1120 | 339.3 |
| 16 | 3 | 425 | 1067 | - | - | - | 2 | 497 | 1850 | 2 | 440 | 1100 | 7 | 450 | 41.1 | 1300 | 539.3 |
| 17 | - | - | - | - | - | - | 1 | 457 | 1000 | - | - | - | 1 | 457 | - | 1000 | - |
| 18 | - | - | - | - | - | - | 2 | 449 | 1150 | - | - | - | 2 | 449 | 12.0 | 1150 | 0.0 |
| TOTAL | 194 | | | - | | | 200 | | | 194 | | | 588 | | | | |
| MEAN | | 408 | 910 | | - | - | | 427 | 1034 | | 418 | 955 | | 418 | 25.1 | 967 | 200.5 |
| MEAN AGE | 11.5 | | | - | | | 12.0 | | | 12.0 | | | 11.8 | | | | |

Table 24. Length composition of commercial whitefish for all areas combined from Great Slave Lake commercial fishery, 1982.

| LENGTH INTERVAL (MM) | NO. | % | FORK LENGTH(MM) MEAN | FORK LENGTH(MM) SD. | DRESSED WEIGHT (G) MEAN | DRESSED WEIGHT (G) SD. |
|---|---|---|---|---|---|---|
| 310-319 | 1 | - | 315 | - | 450 | - |
| 320-329 | 3 | - | 324 | 2.9 | 467 | 28.9 |
| 330-339 | 8 | 0.2 | 335 | 2.9 | 538 | 112.6 |
| 340-349 | 21 | 0.6 | 344 | 2.6 | 557 | 71.2 |
| 350-359 | 27 | 0.8 | 354 | 2.6 | 615 | 69.1 |
| 360-369 | 85 | 2.4 | 365 | 2.8 | 670 | 65.6 |
| 370-379 | 144 | 4.0 | 375 | 2.8 | 723 | 72.9 |
| 380-389 | 274 | 7.7 | 384 | 2.9 | 783 | 74.9 |
| 390-399 | 423 | 11.8 | 394 | 2.9 | 833 | 72.9 |
| 400-409 | 528 | 14.8 | 404 | 2.9 | 896 | 79.9 |
| 410-419 | 510 | 14.3 | 414 | 2.9 | 963 | 94.7 |
| 420-429 | 460 | 12.9 | 424 | 2.8 | 1011 | 101.4 |
| 430-439 | 326 | 9.1 | 434 | 2.8 | 1077 | 109.0 |
| 440-449 | 234 | 6.6 | 444 | 2.8 | 1155 | 117.2 |
| 450-459 | 164 | 4.6 | 454 | 3.0 | 1240 | 143.5 |
| 460-469 | 131 | 3.7 | 464 | 2.9 | 1351 | 151.4 |
| 470-479 | 74 | 2.1 | 474 | 3.0 | 1427 | 147.1 |
| 480-489 | 58 | 1.6 | 484 | 2.8 | 1538 | 145.8 |
| 490-499 | 33 | 0.9 | 494 | 2.6 | 1602 | 198.2 |
| 500-509 | 26 | 0.7 | 504 | 3.4 | 1688 | 216.5 |
| 510-519 | 8 | 0.2 | 514 | 2.8 | 1881 | 263.1 |
| 520-529 | 12 | 0.3 | 523 | 2.9 | 1863 | 226.8 |
| 530-539 | 10 | 0.3 | 534 | 3.7 | 2145 | 424.6 |
| 540-549 | 6 | 0.2 | 544 | 3.9 | 2050 | 44.7 |
| 550-559 | 3 | - | 555 | 4.5 | 2617 | 453.7 |
| 570-579 | 1 | - | 578 | - | 2200 | - |
| TOTAL | 3570 | | | | | |
| MEAN | | | 418 | 31.9 | 999 | 256.0 |

Table 25. Length composition of commercial whitefish for each seasonal period from area IW, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 330-339 | 1 | 335 | 450 | - | - | - | - | - | - | - | - | - | 1 | 335 | - | 450 | - |
| 340-349 | 3 | 346 | 500 | - | - | - | - | - | - | - | - | - | 3 | 346 | 2.5 | 500 | 50.0 |
| 350-359 | 1 | 352 | 600 | - | - | - | - | - | - | - | - | - | 1 | 352 | - | 600 | - |
| 360-369 | 5 | 364 | 630 | 1 | 368 | 650 | - | - | - | - | - | - | 6 | 365 | 3.1 | 633 | 121.1 |
| 370-379 | 11 | 375 | 709 | - | - | - | - | - | - | - | - | - | 11 | 375 | 2.9 | 709 | 49.1 |
| 380-389 | 20 | 384 | 768 | 4 | 384 | 750 | - | - | - | - | - | - | 24 | 384 | 2.9 | 765 | 58.0 |
| 390-399 | 35 | 395 | 816 | 6 | 395 | 792 | - | - | - | - | - | - | 41 | 395 | 3.0 | 812 | 54.5 |
| 400-409 | 36 | 404 | 875 | 7 | 406 | 893 | - | - | - | - | - | - | 43 | 404 | 2.7 | 878 | 76.6 |
| 410-419 | 32 | 415 | 933 | 19 | 413 | 979 | - | - | - | - | - | - | 51 | 414 | 2.9 | 950 | 75.5 |
| 420-429 | 25 | 423 | 988 | 19 | 424 | 1016 | - | - | - | - | - | - | 44 | 424 | 2.9 | 1000 | 90.9 |
| 430-439 | 15 | 434 | 1030 | 19 | 433 | 1038 | - | - | - | - | - | - | 34 | 434 | 2.8 | 1034 | 82.9 |
| 440-449 | 15 | 445 | 1113 | 19 | 443 | 1137 | - | - | - | - | - | - | 34 | 443 | 2.9 | 1126 | 107.9 |
| 450-459 | 8 | 453 | 1206 | 23 | 453 | 1179 | - | - | - | - | - | - | 31 | 453 | 3.1 | 1186 | 131.4 |
| 460-469 | 1 | 463 | 1300 | 22 | 464 | 1309 | - | - | - | - | - | - | 23 | 464 | 3.4 | 1309 | 190.7 |
| 470-479 | 5 | 473 | 1300 | 8 | 474 | 1396 | - | - | - | - | - | - | 13 | 474 | 3.0 | 1359 | 171.1 |
| 480-489 | 2 | 483 | 1375 | 13 | 484 | 1515 | - | - | - | - | - | - | 15 | 484 | 3.4 | 1497 | 131.6 |
| 490-499 | - | - | - | 12 | 494 | 1546 | - | - | - | - | - | - | 12 | 494 | 2.9 | 1546 | 164.4 |
| 500-509 | - | - | - | 12 | 503 | 1617 | - | - | - | - | - | - | 12 | 503 | 3.3 | 1617 | 180.1 |
| 510-519 | - | - | - | 5 | 513 | 1730 | - | - | - | - | - | - | 5 | 513 | 2.4 | 1730 | 182.3 |
| 520-529 | - | - | - | 10 | 524 | 1815 | - | - | - | - | - | - | 10 | 524 | 3.1 | 1815 | 197.3 |
| 530-539 | - | - | - | 4 | 534 | 1788 | - | - | - | - | - | - | 4 | 534 | 4.6 | 1788 | 62.9 |
| 540-549 | - | - | - | 5 | 545 | 2060 | - | - | - | - | - | - | 5 | 545 | 3.8 | 2060 | 41.8 |
| 550-559 | - | - | - | 1 | 550 | 2100 | - | - | - | - | - | - | 1 | 550 | - | 2100 | - |
| 570-579 | - | - | - | 1 | 578 | 2200 | - | - | - | - | - | - | 1 | 578 | - | 2200 | - |
| TOTAL | 215 | | | 210 | | | - | | | - | | | 425 | | | | |
| MEAN | | 410 | 911 | | 458 | 1272 | | - | - | | - | - | | 434 | 41.7 | 1089 | 327.2 |

Table 26. Length composition of commercial whitefish for each seasonal period from area IE, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 310-319 | - | - | - | 1 | 315 | 450 | - | - | - | - | - | - | 1 | 315 | - | 450 | - |
| 340-349 | 1 | 343 | 550 | 1 | 345 | 600 | - | - | - | - | - | - | 2 | 344 | 1.4 | 575 | 35.4 |
| 350-359 | 1 | 353 | 550 | 3 | 355 | 617 | 1 | 354 | 700 | - | - | - | 5 | 355 | 2.9 | 620 | 57.0 |
| 360-369 | 1 | 368 | 700 | 9 | 366 | 689 | - | - | - | 1 | 366 | 650 | 11 | 366 | 2.6 | 686 | 59.5 |
| 370-379 | 11 | 373 | 650 | 12 | 374 | 758 | 4 | 375 | 700 | 6 | 376 | 692 | 33 | 374 | 3.1 | 703 | 69.5 |
| 380-389 | 24 | 384 | 750 | 15 | 383 | 797 | 7 | 384 | 786 | 9 | 385 | 711 | 55 | 384 | 3.0 | 761 | 58.3 |
| 390-399 | 34 | 394 | 807 | 30 | 394 | 865 | 8 | 396 | 819 | 24 | 394 | 817 | 96 | 394 | 3.0 | 829 | 77.7 |
| 400-409 | 46 | 404 | 851 | 39 | 404 | 937 | 15 | 406 | 903 | 27 | 405 | 876 | 127 | 404 | 2.9 | 889 | 73.7 |
| 410-419 | 38 | 415 | 925 | 32 | 414 | 1000 | 27 | 415 | 935 | 23 | 414 | 941 | 120 | 414 | 2.8 | 951 | 82.9 |
| 420-429 | 29 | 424 | 964 | 29 | 424 | 1062 | 37 | 424 | 991 | 31 | 424 | 977 | 126 | 424 | 2.9 | 998 | 99.0 |
| 430-439 | 18 | 434 | 1025 | 16 | 435 | 1184 | 33 | 434 | 1061 | 27 | 434 | 1109 | 94 | 434 | 2.8 | 1089 | 109.8 |
| 440-449 | 10 | 445 | 1070 | 8 | 444 | 1213 | 22 | 445 | 1132 | 23 | 444 | 1157 | 63 | 445 | 2.7 | 1141 | 109.8 |
| 450-459 | 1 | 452 | 1150 | 6 | 452 | 1258 | 16 | 457 | 1219 | 12 | 453 | 1258 | 35 | 455 | 3.1 | 1237 | 100.3 |
| 460-469 | - | - | - | 4 | 463 | 1450 | 21 | 464 | 1295 | 10 | 462 | 1340 | 35 | 464 | 2.5 | 1326 | 130.3 |
| 470-479 | 1 | 477 | 1350 | 2 | 472 | 1700 | 10 | 475 | 1410 | 8 | 474 | 1456 | 21 | 474 | 3.1 | 1452 | 117.8 |
| 480-489 | - | - | - | 1 | 482 | 1550 | 7 | 485 | 1493 | 4 | 483 | 1425 | 12 | 484 | 3.0 | 1475 | 91.7 |
| 490-499 | - | - | - | - | - | - | 2 | 493 | 1425 | 2 | 495 | 1625 | 4 | 494 | 3.5 | 1525 | 259.8 |
| 500-509 | - | - | - | - | - | - | - | - | - | 2 | 508 | 1725 | 2 | 508 | 0.7 | 1725 | 106.1 |
| 510-519 | - | - | - | 1 | 512 | 2100 | - | - | - | - | - | - | 1 | 512 | - | 2100 | - |
| TOTAL | 215 | | | 209 | | | 210 | | | 209 | | | 843 | | | | |
| MEAN | | 407 | 876 | | 408 | 978 | | 433 | 1071 | | 425 | 1031 | | 419 | 27.7 | 989 | 213.0 |

Table 27. Length composition of commercial whitefish for each seasonal period from area II, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 320-329 | - | - | - | - | - | - | - | - | - | 1 | 322 | 430 | 1 | 322 | - | 450 | - |
| 330-339 | - | - | - | - | - | - | 1 | 333 | 550 | 3 | 337 | 517 | 4 | 336 | 2.2 | 525 | 28.9 |
| 340-349 | - | - | - | - | - | - | 4 | 347 | 563 | 3 | 342 | 500 | 7 | 345 | 3.1 | 536 | 62.7 |
| 350-359 | - | - | - | - | - | - | 4 | 355 | 638 | 5 | 353 | 540 | 9 | 354 | 2.9 | 583 | 90.1 |
| 360-369 | - | - | - | - | - | - | 9 | 364 | 672 | 10 | 364 | 655 | 19 | 364 | 2.5 | 663 | 52.3 |
| 370-379 | - | - | - | - | - | - | 6 | 376 | 725 | 24 | 374 | 708 | 30 | 375 | 2.7 | 712 | 52.0 |
| 380-389 | - | - | - | - | - | - | 23 | 384 | 761 | 21 | 384 | 760 | 44 | 384 | 2.8 | 760 | 56.0 |
| 390-399 | - | - | - | - | - | - | 24 | 396 | 817 | 32 | 394 | 806 | 56 | 395 | 2.9 | 811 | 54.5 |
| 400-409 | - | - | - | - | - | - | 30 | 405 | 865 | 34 | 404 | 872 | 64 | 404 | 2.6 | 869 | 53.1 |
| 410-419 | - | - | - | - | - | - | 27 | 415 | 930 | 22 | 413 | 920 | 49 | 414 | 3.0 | 926 | 68.6 |
| 420-429 | - | - | - | - | - | - | 19 | 426 | 997 | 28 | 425 | 946 | 47 | 424 | 2.9 | 967 | 71.7 |
| 430-439 | - | - | - | - | - | - | 19 | 434 | 1026 | 11 | 433 | 1005 | 30 | 434 | 2.8 | 1018 | 60.9 |
| 440-449 | - | - | - | - | - | - | 19 | 444 | 1092 | 6 | 446 | 1142 | 25 | 445 | 2.1 | 1104 | 79.0 |
| 450-459 | - | - | - | - | - | - | 9 | 455 | 1150 | 3 | 453 | 1100 | 12 | 455 | 3.3 | 1138 | 64.4 |
| 460-469 | - | - | - | - | - | - | 7 | 468 | 1307 | 3 | 463 | 1283 | 10 | 466 | 3.2 | 1300 | 102.7 |
| 470-479 | - | - | - | - | - | - | 6 | 472 | 1258 | 2 | 478 | 1475 | 8 | 474 | 3.1 | 1313 | 164.2 |
| 480-489 | - | - | - | - | - | - | 1 | 483 | 1300 | - | - | - | 1 | 483 | - | 1300 | - |
| 490-499 | - | - | - | - | - | - | 1 | 495 | 1450 | - | - | - | 1 | 495 | - | 1450 | - |
| 530-539 | - | - | - | - | - | - | - | - | - | 1 | 532 | 2500 | 1 | 532 | - | 2500 | - |
| TOTAL | - | | | - | | | 209 | | | 209 | | | 418 | | | | |
| MEAN | | - | - | | - | - | | 413 | 923 | | 401 | 853 | | 407 | 30.2 | 888 | 193.0 |

Table 28. Length composition of commercial whitefish for each seasonal period from area III, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 330-339 | - | - | - | - | - | - | 1 | 339 | 800 | - | - | - | 1 | 339 | - | 800 | - |
| 340-349 | - | - | - | - | - | - | - | - | - | 1 | 344 | 550 | 1 | 344 | - | 550 | - |
| 360-369 | - | - | - | - | - | - | 1 | 366 | 800 | 1 | 368 | 650 | 2 | 367 | 1.4 | 725 | 106.1 |
| 370-379 | - | - | - | - | - | - | 3 | 376 | 767 | 1 | 378 | 750 | 4 | 376 | 1.7 | 763 | 103.1 |
| 380-389 | - | - | - | - | - | - | 9 | 385 | 800 | 2 | 384 | 775 | 11 | 385 | 2.9 | 795 | 68.8 |
| 390-399 | - | - | - | - | - | - | 11 | 396 | 932 | 4 | 393 | 863 | 15 | 395 | 3.2 | 913 | 81.2 |
| 400-409 | - | - | - | - | - | - | 20 | 406 | 965 | 10 | 403 | 865 | 30 | 405 | 3.2 | 932 | 98.7 |
| 410-419 | - | - | - | - | - | - | 24 | 414 | 1033 | 15 | 415 | 1030 | 39 | 415 | 2.8 | 1032 | 79.0 |
| 420-429 | - | - | - | - | - | - | 35 | 424 | 1070 | 17 | 424 | 1021 | 52 | 424 | 2.7 | 1054 | 129.0 |
| 430-439 | - | - | - | - | - | - | 29 | 434 | 1169 | 19 | 433 | 1126 | 48 | 434 | 2.9 | 1152 | 118.0 |
| 440-449 | - | - | - | - | - | - | 25 | 444 | 1260 | 23 | 444 | 1198 | 48 | 444 | 2.7 | 1230 | 110.5 |
| 450-459 | - | - | - | - | - | - | 19 | 455 | 1384 | 24 | 454 | 1279 | 43 | 455 | 2.8 | 1326 | 182.0 |
| 460-469 | - | - | - | - | - | - | 14 | 464 | 1471 | 27 | 464 | 1413 | 41 | 464 | 2.7 | 1433 | 103.4 |
| 470-479 | - | - | - | - | - | - | 8 | 475 | 1469 | 18 | 474 | 1472 | 26 | 474 | 2.9 | 1471 | 130.5 |
| 480-489 | - | - | - | - | - | - | 9 | 483 | 1622 | 16 | 484 | 1606 | 25 | 483 | 2.7 | 1612 | 147.4 |
| 490-499 | - | - | - | - | - | - | 1 | 494 | 1750 | 13 | 493 | 1688 | 14 | 493 | 2.2 | 1693 | 204.6 |
| 500-509 | - | - | - | - | - | - | 1 | 501 | 1500 | 8 | 505 | 1894 | 9 | 505 | 3.5 | 1850 | 160.1 |
| 510-519 | - | - | - | - | - | - | - | - | - | 2 | 518 | 2150 | 2 | 518 | 0.7 | 2150 | 212.1 |
| 520-529 | - | - | - | - | - | - | - | - | - | 2 | 522 | 2100 | 2 | 522 | 0.0 | 2100 | 282.8 |
| 530-539 | - | - | - | - | - | - | - | - | - | 4 | 536 | 2388 | 4 | 536 | 2.8 | 2388 | 499.0 |
| 540-549 | - | - | - | - | - | - | - | - | - | 1 | 540 | 2000 | 1 | 540 | - | 2000 | - |
| 550-559 | - | - | - | - | - | - | - | - | - | 1 | 555 | 2950 | 1 | 555 | - | 2950 | - |
| TOTAL | - | | | - | | | 210 | | | 209 | | | 419 | | | | |
| MEAN | | - | - | | - | - | | 431 | 1166 | | 454 | 1333 | | 442 | 33.2 | 1249 | 326.5 |

Table 29. Length composition of commercial whitefish for each seasonal period from area IV, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 320-329 | 2 | 325 | 475 | - | - | - | - | - | - | - | - | - | 2 | 325 | 3.5 | 475 | 35.4 |
| 330-339 | 2 | 333 | 475 | - | - | - | - | - | - | - | - | - | 2 | 333 | 3.5 | 475 | 35.4 |
| 340-349 | 5 | 343 | 600 | - | - | - | - | - | - | - | - | - | 7 | 344 | 2.9 | 579 | 75.6 |
| 350-359 | 5 | 356 | 630 | - | - | - | - | - | - | - | - | - | 10 | 355 | 2.0 | 630 | 53.7 |
| 360-369 | 27 | 364 | 680 | - | - | - | 3 | 364 | 633 | 2 | 364 | 725 | 39 | 364 | 3.0 | 678 | 58.4 |
| 370-379 | 26 | 374 | 725 | - | - | - | 4 | 374 | 750 | 3 | 377 | 900 | 45 | 374 | 2.8 | 747 | 84.9 |
| 380-389 | 23 | 383 | 807 | - | - | - | 19 | 384 | 797 | 23 | 385 | 898 | 105 | 384 | 2.9 | 815 | 84.9 |
| 390-399 | 43 | 395 | 842 | - | - | - | 34 | 395 | 846 | 28 | 395 | 904 | 149 | 395 | 2.7 | 856 | 68.9 |
| 400-409 | 30 | 404 | 915 | - | - | - | 44 | 404 | 903 | 45 | 405 | 958 | 164 | 404 | 2.9 | 920 | 84.5 |
| 410-419 | 21 | 414 | 1010 | - | - | - | 37 | 415 | 951 | 54 | 414 | 1040 | 140 | 414 | 2.9 | 994 | 111.3 |
| 420-429 | 19 | 422 | 1042 | - | - | - | 33 | 425 | 1015 | 28 | 424 | 1095 | 92 | 424 | 2.9 | 1051 | 109.1 |
| 430-439 | 7 | 432 | 1136 | - | - | - | 14 | 433 | 1025 | 13 | 434 | 1196 | 42 | 433 | 2.5 | 1100 | 103.0 |
| 440-449 | 1 | 448 | 1200 | - | - | - | 10 | 443 | 1185 | 8 | 445 | 1188 | 20 | 444 | 2.7 | 1180 | 99.2 |
| 450-459 | 2 | 451 | 1400 | - | - | - | 10 | 454 | 1255 | 1 | 452 | 1250 | 13 | 453 | 3.2 | 1277 | 146.7 |
| 460-469 | 1 | 465 | 1150 | - | - | - | 1 | 468 | 1250 | 3 | 465 | 1467 | 6 | 465 | 3.4 | 1367 | 297.8 |
| 470-479 | - | - | - | - | - | - | 1 | 474 | 1700 | - | - | - | 1 | 474 | - | 1700 | - |
| 490-499 | 1 | 492 | 1500 | - | - | - | - | - | - | - | - | - | 1 | 492 | - | 1500 | - |
| TOTAL | 215 | | | - | | | 210 | | | 208 | | | 838 | | | | |
| MEAN | | 392 | 851 | | - | - | | 411 | 947 | | 410 | 1013 | | 403 | 22.3 | 919 | 169.2 |

Table 30. Length composition of commercial whitefish for each seasonal period from area V, 1982.

| LENGTH INTERVAL (MM) | WINTER NO. | WINTER MEAN FORK LEN. (MM) | WINTER MEAN DR. WT. (G) | SPRING NO. | SPRING MEAN FORK LEN. (MM) | SPRING MEAN DR. WT. (G) | SUMMER NO. | SUMMER MEAN FORK LEN. (MM) | SUMMER MEAN DR. WT. (G) | FALL NO. | FALL MEAN FORK LEN. (MM) | FALL MEAN DR. WT. (G) | TOTAL NO. | TOTAL FORK LENGTH(MM) MEAN | TOTAL FORK LENGTH(MM) SD. | TOTAL DRESSED WEIGHT(G) MEAN | TOTAL DRESSED WEIGHT(G) SD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 340-349 | - | - | - | - | - | - | - | - | - | 1 | 346 | 700 | 1 | 346 | - | 700 | - |
| 350-359 | 2 | 352 | 675 | - | - | - | - | - | - | - | - | - | 2 | 352 | 2.1 | 675 | 35.4 |
| 360-369 | 4 | 365 | 675 | - | - | - | 3 | 364 | 583 | 1 | 365 | 650 | 8 | 365 | 3.0 | 638 | 69.4 |
| 370-379 | 12 | 374 | 721 | - | - | - | 4 | 375 | 700 | 5 | 376 | 720 | 21 | 375 | 2.8 | 717 | 71.3 |
| 380-389 | 16 | 384 | 744 | - | - | - | 6 | 386 | 833 | 13 | 384 | 754 | 35 | 384 | 2.6 | 763 | 69.0 |
| 390-399 | 35 | 394 | 806 | - | - | - | 15 | 395 | 820 | 16 | 392 | 778 | 66 | 394 | 2.9 | 802 | 68.7 |
| 400-409 | 43 | 405 | 894 | - | - | - | 26 | 404 | 885 | 31 | 404 | 853 | 100 | 404 | 3.0 | 879 | 76.8 |
| 410-419 | 42 | 414 | 942 | - | - | - | 32 | 415 | 955 | 37 | 415 | 908 | 111 | 414 | 2.8 | 934 | 83.4 |
| 420-429 | 28 | 424 | 1014 | - | - | - | 31 | 424 | 998 | 40 | 424 | 983 | 99 | 424 | 2.6 | 996 | 78.0 |
| 430-439 | 16 | 432 | 1019 | - | - | - | 32 | 434 | 1044 | 30 | 434 | 1063 | 78 | 434 | 2.8 | 1046 | 100.2 |
| 440-449 | 13 | 442 | 1138 | - | - | - | 21 | 444 | 1126 | 10 | 444 | 1130 | 44 | 443 | 2.9 | 1131 | 131.3 |
| 450-459 | 3 | 450 | 1200 | - | - | - | 16 | 455 | 1191 | 11 | 454 | 1214 | 30 | 454 | 3.0 | 1200 | 84.1 |
| 460-469 | 1 | 460 | 1200 | - | - | - | 10 | 465 | 1330 | 5 | 463 | 1210 | 16 | 464 | 2.7 | 1284 | 115.1 |
| 470-479 | - | - | - | - | - | - | 4 | 475 | 1413 | 1 | 478 | 1350 | 5 | 475 | 3.4 | 1400 | 86.6 |
| 480-489 | - | - | - | - | - | - | 5 | 484 | 1490 | - | - | - | 5 | 484 | 1.3 | 1490 | 138.7 |
| 490-499 | - | - | - | - | - | - | - | - | - | 1 | 490 | 1550 | 1 | 490 | - | 1550 | - |
| 500-509 | - | - | - | - | - | - | 1 | 501 | 1650 | 2 | 504 | 1375 | 3 | 503 | 2.6 | 1467 | 275.4 |
| 530-539 | - | - | - | - | - | - | 1 | 530 | 2450 | - | - | - | 1 | 530 | - | 2450 | - |
| 550-559 | - | - | - | - | - | - | 1 | 559 | 2800 | - | - | - | 1 | 559 | - | 2800 | - |
| TOTAL | 215 | | | - | | | 208 | | | 204 | | | 627 | | | | |
| MEAN | | 408 | 907 | | - | - | | 427 | 1037 | | 419 | 955 | | 418 | 25.3 | 966 | 200.8 |

Table 31. Annual mortality rates for commercial whitefish from each area in 1982.

| Area | Age-Classes Used | Survival (S) | SE of S | Var of S | Annual Mortality Rate (A) |
|---|---|---|---|---|---|
| IW | 13-19 | 0.4425 | 0.0375 | 0.0014 | 0.5575 |
| IE | 12-17 | 0.3535 | 0.0215 | 0.0005 | 0.6465 |
| II | 10-20 | 0.5643 | 0.0235 | 0.0006 | 0.4357 |
| III | 13-16 | 0.2417 | 0.0389 | 0.0015 | 0.7583 |
| IV | 12-16 | 0.3235 | 0.0214 | 0.0005 | 0.6765 |
| V | 14-18 | 0.3736 | 0.0357 | 0.0013 | 0.6264 |
| Total | 13-20 | 0.3624 | 0.0145 | 0.0002 | 0.6376 |

POOR

QUALITY

ORIGINAL